CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1 1. (currently amended) A method of file access control comprising: 2 storing an encrypted filename of a file at a location in a computing [[a.]] 3 system; 4 [[b.]] converting the encrypted filename into a plaintext filename; 5 [[c.]] modifying the plaintext filename into a modified filename; and 6 [[d.]] authorizing an entity to access the file for performing a writetype of operation on the file by comparing based on the modified filename to 7 8 the stored encrypted filename. 1 2. (currently amended) The method according to claim 1, wherein said 2 converting comprises using a key that comprises a combination of two 3 encryption keys to convert the encrypted filename into the plaintext 4 filename. 1 3. (original) The method according to claim 2, wherein said modifying 2 comprises using a first one of the two encryption keys to encrypt the 3 plaintext filename into the modified filename. 1 4. (original) The method according to claim 3, wherein said authorizing 2 comprises using the second one of the two encryption keys to encrypt the 3 modified filename to form a result and determining whether the result 4 matches the encrypted filename. 1 5. (original) The method according to claim 2, wherein said modifying 2 comprises using a first one of the two encryption keys to encrypt the 3 plaintext filename and performing a hash function on the filename thereby 4 forming the modified filename.

6. 1 (original) The method according to claim 5, wherein said authorizing 2 comprises comparing the modified filename to a stored hash value. 1 7. (original) The method according to claim 1, wherein said encrypted 2 filename is encrypted using a first key prior to said storing and further 3 comprising storing a second encrypted filename of the file at the location 4 wherein the second encrypted filename is encrypted using a second key 5 prior to said storing. 1 8. (original) The method according to claim 7, wherein said converting 2 comprises using the first key to convert the encrypted filename into the 3 plaintext filename. 1 9. (original) The method according to claim 8, wherein said modifying 2 comprises using the second key to encrypt the plaintext filename into the 3 modified filename. 1 10. (original) The method according to claim 9, wherein said authorizing 2 comprises comparing the modified filename to the second encrypted 3 filename. 1 11. (original) The method according to claim 10, wherein said modifying 2 further comprises performing a hash function on the filename after using 3 the second key to encrypt the plaintext filename. 1 12. (currently amended) The method according to claim 1, wherein the 2 plaintext filename permits read access to the file and wherein said type of 3 operation is a write operation. 1 13. (original) The method according to claim 1, wherein said storing 2 comprises substituting said encrypted filename into a directory structure at 3 the location in place of the plaintext filename.

1	14.	(original) The method according to claim 1, further comprising encrypting
2		data of the file.
1	15.	(currently amended) An apparatus for controlling access to a file,
2		comprising:
3		[[a.]] a server for the storing an encrypted filename associated with a
4		file; and
5		[[b.]] a client in communication with the server for retrieving the
6		encrypted filename from the server, for converting the encrypted
7		filename into a plaintext filename and for modifying the plaintext
8		filename into a modified filename,
9		wherein the client provides the modified filename to the server and
10		wherein the server determines whether the client is authorized to perform a
11		writetype of operation on the file by comparing based on the modified
12		filename received from the client to the stored encrypted filename.
1	16.	(currently amended) The apparatus according to claim 15, wherein the
2		plaintext filename permits read access to the file and wherein the type of
3		operation to the file is a write operation.
1	17.	(currently amended) The apparatus according to claim 15, wherein said
2		client converts the encrypted filename into the plaintext filename using a
3		key that comprises a combination of two encryption keys.
1	18.	(original) The apparatus according to claim 17, wherein said client forms
2		the modified filename using a first one of the two encryption keys to
3		encrypt the plaintext filename.
1	19.	(currently amended) The apparatus according to claim 18, wherein said
2		server determines whether the client is authorized to perform the write
3		type of operation on the file by using the second one of the two encryption
4		keys to encrypt the modified filename to form a result and determines
5		whether the result matches the encrypted filename provided by the client.

1 20. (currently amended) The apparatus according to claim 17, wherein said 2 client forms the modified filename using a first one of the two encryption 3 keys to encrypt the plaintext filename and performs a hash function on the 4 filename thereby forming the modified filename. 1 21. (currently amended) The apparatus according to claim [[20]]17, wherein 2 said server performs a hash function on the filename to form a result and 3 determines whether the client is authorized to perform the readtype of 4 operation on the file by comparing the result to a stored hash value. 1 22. (original) The apparatus according to claim 17, wherein said client forms 2 the modified filename using a first one of the two encryption keys to 3 encrypt the plaintext filename and performs a hash function on the 4 filename to form a result and wherein the server determines whether the 5 client is authorized to perform the type of operation on the file by 6 comparing the result to a stored hash value. 1 23. (original) The apparatus according to claim 15, wherein the encrypted 2 filename is encrypted using a first key and wherein the server stores a 3 second encrypted filename wherein the second encrypted filename is 4 encrypted using a second key. 1 24. (original) The apparatus according to claim 23, wherein the client 2 converts the encrypted filename into the plaintext filename using the first 3 key and modifies the plaintext filename into the modified filename using 4 the second key. 1 25. (currently amended) The apparatus according to claim 24, wherein the 2 server determines whether the client is authorized to perform the write 3 a type of operation on the file by comparing the modified filename to the 4 second encrypted filename.

1 26. (original) The apparatus according to claim 25, wherein the server performs a hash function on the filename after the client uses the second 2 3 key to modify the filename. 1 27. (original) The apparatus according to claim 25, wherein the client 2 performs a hash function on the filename after using the second key to 3 modify the filename. 28. 1 (currently amended) An apparatus for controlling access to a file 2 comprising a server having a stored encrypted filename of a file, the server 3 being in communication with a writer and a reader, the writer being a 4 client of the server and having a first key that permits the writer to write to 5 the file and the reader being another client of the server and having a combination key that comprises a combination of the first key and a 6 7 second key wherein the combination key permits the reader to read the 8 file. 29. 1 (currently amended) The apparatus according to claim 28, wherein the 2 stored encrypted filename is obtained by encrypting a filename of the file 3 using the combination keyof the first key and the second key. 1 30. (original) The apparatus according to claim 29, wherein the server 2 determines that the writer is authorized to write to the file by receiving 3 from the writer the filename encrypted using the first key, encrypting the 4 received filename again using the second key thereby forming a twice 5 encrypted filename and comparing the twice encrypted filename to the 6 stored encrypted filename. 1 31. (original) The apparatus according to claim 29, wherein the server 2 determines that the writer is authorized to write to the file by receiving 3 from the writer the filename encrypted using the first key, applying a hash function to the received filename thereby forming a computed hash value 4 5 and comparing the computed hash value to a stored hash value.

1	32.	(currently amended) An apparatus for controlling access to a file
2		comprising a server having a first stored encrypted filename of the file and
3		a second stored encrypted filename of the file, the server being in
4		communication with a writer and a reader, the writer being a client of the
5		server and having a first key that permits the writer to write to the file and
6		the server determining whether the writer is authorized to write to the file
7		by receiving from the writer the filename encrypted using the second key
8		and comparing the received filename to the second stored encrypted
9		filename and the reader being another client of the server and having a
10		second key that permits the reader to read the file.
1	33.	(original) The apparatus according to claim 32, wherein the reader
2		decrypts the first stored encrypted filename using the first key.
1	34.	(cancelled)
1 2 3	35.	(currently amended) The apparatus according to claim [[33]]32, wherein the server performs a hash function on the received filename before comparing the received filename to the second stored encrypted filename.
1	36.	(new) The method according to claim 2, further comprising:
2		encrypting the plaintext filename using a key that comprises a
3		combination of two encryption keys; and
4		comparing a result of this encrypting to the stored encrypted filename
5		to determine whether to permit read access to the file.
1 .	37.	(new) The method according to claim 36, wherein said modifying
2		comprises using a first one of the two encryption keys to encrypt the
3		plaintext filename into the modified filename
1	38.	(new) The apparatus according to claim 15, wherein the client encrypts
2		the plaintext filename and the server compares the encrypted plaintext
3		filename to its stored encrypted filename to determine whether to permit
4		read access to the file.

1	39.	(new) The apparatus according to claim 38, wherein the client encrypts
2		the plaintext filename to form the encrypted plaintext filename using a key
3		that comprises a combination of two encryption keys and the client
4		encrypts the plaintext filename to form the modified filename using a first
5		one of the two encryption keys.